

# Rotary actuator DRRD-16-

Part number: 574399

**FESTO**



## Data sheet

| Feature                                           | Value                                                                                                                                                      |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                              | 16                                                                                                                                                         |
| Swivel angle                                      | 180 deg                                                                                                                                                    |
| Cushioning                                        | Elastic cushioning rings/pads at both ends<br>External hydraulic cushioning<br>Internal hydraulic cushioning, soft<br>Internal hydraulic cushioning normal |
| Mounting position                                 | Any                                                                                                                                                        |
| Structural design                                 | Gear rack/pinion                                                                                                                                           |
| Max. number of intermediate positions             | 1                                                                                                                                                          |
| Position sensing                                  | Via proximity switch                                                                                                                                       |
| Operating pressure                                | 0.2 MPa...1 MPa<br>2 bar...10 bar                                                                                                                          |
| Mode of operation                                 | Double-acting                                                                                                                                              |
| CE marking (see declaration of conformity)        | as per EU explosion protection directive (ATEX)                                                                                                            |
| UKCA marking (see declaration of conformity)      | acc. to UK EX instructions                                                                                                                                 |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB)                                                                                                                                 |
| Explosion prevention and protection               | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX)                                                      |
| ATEX category gas                                 | II 2G                                                                                                                                                      |
| ATEX category for dust                            | II 2D                                                                                                                                                      |
| Type of ignition protection for gas               | Ex h IIC T4 Gb                                                                                                                                             |
| Type of (ignition) protection for dust            | Ex h IIIC T120°C Db                                                                                                                                        |
| Explosive ambient temperature                     | -10°C ≤ Ta ≤ +60°C                                                                                                                                         |
| Operating medium                                  | Compressed air as per ISO 8573-1:2010 [7:4:4]                                                                                                              |
| Information on operating and pilot media          | Operation with oil lubrication possible (required for further use)                                                                                         |
| LABS (PWIS) conformity                            | VDMA24364 Zone III                                                                                                                                         |
| Ambient temperature                               | -10 °C...60 °C                                                                                                                                             |
| Theoretical torque at 6 bar                       | 1.59 Nm                                                                                                                                                    |
| Permissible mass moment of inertia                | 0.0175 kgm <sup>2</sup> ...0.09 kgm <sup>2</sup>                                                                                                           |

| Feature              | Value                                                       |
|----------------------|-------------------------------------------------------------|
| Type of mounting     | Alternatively:<br>With through-hole<br>With internal thread |
| Pneumatic connection | M5                                                          |
| Note on materials    | RoHS compliant                                              |
| Drive shaft material | Quenched and tempered steel                                 |
| Cover material       | Wrought aluminum alloy<br>Anodized                          |
| Seals material       | NBR<br>TPE-U(PU)                                            |
| Housing material     | Wrought aluminum alloy<br>Smooth-anodized                   |